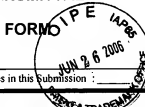


TRANSMITTAL



Application Number: 10/072,320  
 Filing Date: February 7, 2002  
 First Named Inventor: Russell Mumper  
 Art Unit: 1618  
 Examiner Name: Michael G. Hartley  
 Attorney Docket Number: NANO:002USD1

Total Number of Pages in this Submission: \_\_\_\_\_

ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form  
☐ Fee Attached  
☐ Amendment/Reply  
☐ After Final  
☐ Affidavits/declaration(s)  
☐ Extension of Time Request  
☐ Express Abandonment Request  
☒ Information Disclosure Statement  
☒ Form PTO-1449  
☒ References B5, C44-C48  
☐ Foreign Search Report  
☐ Certified Copy of Priority Documents  
☐ Reply to Missing Parts/Incomplete Application  
☐ Reply to Missing Parts/Requirements  
☐ Declaration(s) \_\_\_\_\_  
☐ Copy of Notice of Missing Parts/Requirements

- ☐ Drawings(s) \_\_\_\_\_  
☐ Licensing-related Papers  
☐ Petition  
☐ Petition to Convert to a Provisional Application  
☐ Power of Attorney, Revocation, Change of Correspondence Address  
☐ Statement under 37 CFR §3.73(b)  
☐ Designation of Patent Practitioners  
☐ Terminal Disclaimer  
☐ Request for Refund  
☐ CD, Number CD(s) \_\_\_\_\_  
☐ Landscape Table on CD

- ☐ After Allowance Communication to TC  
☐ Appeal Communication to Board of Appeals and Interferences  
☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  
☐ Proprietary Information  
☐ Status Letter  
☒ Other Enclosure(s) (please identify below)  
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Remarks:

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Fulbright & Jaworski L.L.P.	Customer Number	32425
Signature	<i>[Signature]</i> GINA SHUMMA 45,104		
Printed Name	Michael C. Barrett	Reg. No.	44,523
Date	June 23, 2006		

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: MS AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	<i>[Signature]</i>		
Typed or Printed Name	Michael C. Barrett	Date	June 23, 2006



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Russell Mumper  
Michael Jay

Serial No.: 10/072,320

Filed: February 7, 2002

For: pH-SENSITIVE MUCOADHESIVE FILM-  
FORMING GELS AND WAX-FILM  
COMPOSITES SUITABLE FOR  
TOPICAL AND MUCOSAL DELIVERY  
OF MOLECULES

Group Art Unit: 1618

Examiner: Michael G. Hartley

Atty. Dkt. No.: NANO:002USD1

<p align="center"><b>CERTIFICATE OF MAILING</b> 37 C.F.R. 1.8</p> <p>I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:</p> <p>June 23, 2006 Date <u>Gina N. Shishima</u></p>
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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

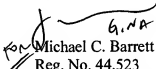
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be

construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

A fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 is enclosed. If an appropriate check has not been enclosed, or if it is insufficient, the Commissioner is authorized to deduct the appropriate fee from Fulbright & Jaworski Account No.: 50-1212/NANO:002USD1.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

*G. NA SHISHAMA REG NO. 45,104*  
for  Michael C. Barrett  
Reg. No. 44,523  
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.  
600 Congress Avenue, Suite 2400  
Austin, Texas 78701  
(512) 474-5201

Date: June 23, 2006

Form PTO-1449 (modified)



List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.  
NANO:002USD1Serial No.  
10/072,320Applicant  
Russell Mumper and Michael JayFiling Date:  
February 7, 2002Group:  
1618U.S. Patent Documents  
See Page 1Foreign Patent Documents  
See Page 1Other Art  
See Page 2

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A4	5,252,318	10/12/93	Joshi <i>et al.</i>	424	78.04	06/15/90
	A5	5,346,701	09/13/94	Heiber <i>et al.</i>	424	435	02/22/93
	A6	5,441,732	08/15/95	Hoeg <i>et al.</i>	424	78.04	03/18/92
	A7	5,472,704	12/05/95	Santus <i>et al.</i>	424	435	12/27/93
	A8	5,639,469	06/17/97	Benes <i>et al.</i>	424	435	06/15/94
	A9	5,688,520	11/18/97	Karsenty <i>et al.</i>	424	434	05/24/95
	A10	5,780,045	07/14/98	McQuinn <i>et al.</i>	424	434	11/08/96
	A11	5,900,247	05/04/99	Rauli <i>et al.</i>	424	434	12/27/96
	A12	5,989,535	11/23/99	Nayak <i>et al.</i>	424	78.02	08/15/97
	A13	5,993,846	11/30/99	Friedman <i>et al.</i>	424	434	04/21/98
	A14	6,004,546	12/21/99	Sachetto	424	78.01	05/14/99
	A15	6,086,911	07/11/00	Godbey	424	448	06/16/98
	A16	6,159,498	12/12/00	Tapolsky <i>et al.</i>	424	449	09/01/98
	A17	6,210,699	04/03/01	Acharya <i>et al.</i>	424	435	04/01/99
	A18	6,319,510	11/20/01	Yates	424	404	02/22/00

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B5	WO 00/54733	03/03/00	WIPO			German

2566991.1

EXAMINER:

DATE CONSIDERED:

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Form PTO-1449 (modified)

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Atty. Docket No.  
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February 7, 2002Group:  
1618U.S. Patent Documents  
See Page 1Foreign Patent Documents  
See Page 1Other Art  
See Page 2

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C44	Leopold and Eikeler, "Eudragit E as coating material for the pH-controlled drug release in the topical treatment of inflammatory bowel disease (IBD)," <i>J Drug Target</i> , 6(2):85-94, 1998.
	C45	Nakumura <i>et al.</i> , "Uptake and release of budesonide from mucoadhesive, pH-sensitive copolymers and their application to nasal delivery," <i>J Control Release</i> , 6(3):329-35, 1999.
	C46	Park and Robinson, "Mechanisms of mucoadhesion of poly(acrylic acid) hydrogels," <i>Pharm Res</i> , 4(6):457-64, 1987.
	C47	Ramkissoon-Ganorkar <i>et al.</i> , "Effect of molecular weight and polydispersity on kinetics of dissolution and release from pH/temperature-sensitive polymers," <i>J Biomater Sci Polym Ed</i> 10(10):1149-61, 1999.
	C48	Ryu <i>et al.</i> , "Increased bioavailability of propranolol in rats by retaining thermally gelling liquid suppositories in the rectum," <i>J Control Release</i> , 59(2):163-72, 1999.

25669/41.1

EXAMINER: /Michael Hartley/

DATE CONSIDERED: 09/23/2008

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